

TO ALL TO WHOM THESE PRESENTS SHAFL COME:

# Monsanto Jechnology TIC

TUCCUS, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, & CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR NYL VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84) AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### SOYBEAN

'0049431'

In Testimonn Mercest, I have hereunto set my hand and caused the seal of the Hant Buriety Frotection Office to be affixed at the City of Washington, D.C. this nineteenth day of Sytember, in the year two thousand and three.

Mord blermelin Acting Commissioner O Plant Variety Protection Office Agricultural Marketing Service

Secretary of Agricul

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7.U.S.C. 2421). Information is held confidential until certificate is issued (7.U.S.C. 2426).

(Instructions and information collection burden     NAME OF OWNER     Monsanto Technology I		2. TEMPORARY DESIGNATE EXPERIMENTAL NAME DBL3702B0X	110N OR 3. VARIETY NAME 0049431
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP C	ode, and Country)	5. TELEPHONE (include are (515) 232-717	
Ames, IA 50010		6. FAX (include area code) (515) 232-690	2003001
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)  Limited Liability Company	8. IF INCORPORATED STATE OF INCORP	9. DATE OF INCORPORAT	2/4/2003
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO  Donald Steffen 634 E. Lincoln Way Ames, IA 50010	SERVE IN THIS APPLICATION. (First pa	erson listed will receive all papers)	FILING AND EXAMINATION FEES:  \$ 2,705.00  DATE 2/4/2003  CERTIFICATION FEE:  \$ 430.00
11. TELEPHONE (Include area code) 12. FAX (Include area code) (515) 956-3002 (515) 232		.e.steffen@monsanto.com	DATE 9/12/2003  14. CROP KIND (Common Name)  Soybean
15. GENUS AND SPECIES NAME OF CROP  Glycine max (L.) Merr.		NAME (Botanical) aceae (Leguminosae)	17. IS THE VARIETY A FIRST GENERATION HYBRID?  YES NO
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMereverse)  a. ✓ Exhibit A. Origin and Breeding History of the Variety  b. ✓ Exhibit B. Statement of Distinctness  c. ✓ Exhibit C. Objective Description of Variety  d. ✓ Exhibit D. Additional Description of the Variety (Option e. ✓ Exhibit E. Statement of the Basis of the Owner's Own f. ✓ Voucher Sample (2,500 viable untreated seeds or, for verification that tissue culture will be deposited and material repository)  g. ✓ Filing and Examination Fee (\$2,705), made payable to States" (Mail to the Plant Variety Protection Office)	nal) ership tuber propagated varieties, aintained in an approved public	9. DOES THE OWNER SPECIFY THAT SEED CERTIFIED SEED? See Section 83(a) of YES (If "yes", answer items 20 and 21 below)  0. DOES THE OWNER SPECIFY THAT SEED VARIETY BE LIMITED AS TO NUMBER OF IF YES, WHICH CLASSES? FOUND  1. DOES THE OWNER SPECIFY THAT THE CLIMITED AS TO NUMBER OF GENERATIO!  IF YES, SPECIFICATHE NUMBER 1. 2. 3. 46. (If additional explanation is necessary, please	of the Plant Variety Protection Act)  NO (If "no," go to item 22)  OF THIS YES NO CLASSES?  ATION REGISTERED CERTIFIED  PLASSES BE NS? YES NO TION REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFE OTHER COUNTRIES?  YES  IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOREACH COUNTRY AND THE CIRCUMSTANCES. (Please	RRED, OR USED IN THE U. S. OR  SPOSITION, TRANSFER, OR USE use space indicated on reverse.)	PROPERTY RIGHT (PLANT BREEDER'S R YES. IF YES, GIVE COUNTRY, DATE OF FILING REFERENCE NUMBER, (Please use space	NO OR ISSUANCE AND ASSIGNED indicated on reverse.)
24. The owners declare that a viable sample of basic seed of the var for a tuber propagated variety a tissue culture will be deposited in The undersigned owner(s) is(are) the owner of this sexually reprand is entitled to protection under the provisions of Section 42 of Owner(s) is(are) informed that false representation herein can jet	oduced or tuber propagated plant variety, the Plant Variety Protection Act.	and believe(s) that the variety is new, distinct	•
SIGNATURE OF OWNER		IGNATURE OF OWNER	. /
NAME (Please print or type) W  Donald Steffen	N	IAME (Please print or type)	
CAPACITY OR TITLE Oilseeds IP/Reg. Affairs Manager	31 Jan 2003	APACITY OR TITLE	DATE

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filling fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences, and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent No. 5,776,760. Issue Date: July 7, 1998. Assignee: Monsanto Company. Patent Application No. 484,274.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed or address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed/ls-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

### MONSANTO TECHNOLGY LLC PVP APPLICATION - 0049431

#### **EXHIBIT A**

#### ORIGIN AND BREEDING HISTORY

1997 - Final cross was made in 1997 at Isabela, Puerto Rico.

Parentage: A3559/AG3302

Source of glyphosate tolerance is AG3302 = A3244/3/A3304\*2//A3237\*4/40-3-2

- 1997 F1 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1998 F2 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1998 F3 bulk populations were grown at Stonington, Illinois and single plants pulled.
- 1999 F3 derived F4 plants were grown at Bloomington, Illinois in progeny rows and variety 0049431 was selected
- was selected.
  (Selection criteria included lodging resistance, general plant disease reaction to SCN, BSR, white mold, and PRR, reaction to supposate herbicide, overall plant performance (H22/2003 bt per a 2000 F3:5 breeder seed was grown at Sterlington, Illinois for progeny row and for yield tests at 5 locations.

Variety 0049431 was observed to be uniform and stable for the characteristics described within this application based on our observations since 2000 and, henceforth, to present. No variants were observed during this time.

Variety 0049431 has continued to be grown in yield tests at 10 locations in 2001 and 29 locations in 2002 for comparison against other varieties to determine how it would be used in our marketing program.

## MONSANTO TECHNOLGY LLC PVP APPLICATION - **0049431**

#### EXHIBIT B

### **NOVELTY STATEMENT**

To our knowledge, the soybean varieties that closely resemble 0049431 are SD82997, and SD92955:

1. Pod Wall color	0049431 SN79794 SD92955	-Brown -Tan Brown (corrected per applicant's -Tan request on 7/9/2003).
2. Hilum color	0049431 SN79794	- Imperfect Black - Imperfect Black
	SD92955	- Buff
3. STS (Als) Gene	0049431	- Present
(Tolerance to sulfonylurea herbicides)	SN79794	- Absent
	SD92955	- Absent

4

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

## OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	Monsanto Technology	LLC		FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.	D. No., City, State, and ZIP Code)			PVPO NUMBER 200300130
	634 E. Lincoln Way Ames, IA 50010			VARIETY NAME 0049431
				TEMPORARY OR EXPERIMENTAL DESIGNATION DBL3702B0X
PLEASE READ ALL INSTR	UCTIONS CAREFULLY: Place the ap	propriate number that descri	bes the varietal character of th	is variety in the boxes below.
Place a zero in the first box (e	.g. 099 or 09 ) when num	ber is either 99 or less or 9 o	r less respectively. Data for qu	antitative
plant characters should be ba	sed on a minimum of 100 plants. Comp	arative data should be detern	nined from varieties entered in	the same trial. Royal
Horticultural Society or any r	ecognized color standard may be used to	determine plant colors; desi	gnate system used:	
	r your variety; lack of response may del	ay progress of your application	on,	
A. MORPHOLOGY				
Seed Shape:			•	
3 = Elon	T, and T/W ratios $< 1.2$ )	(L/W ratio 4 = Elonga	ical-Flattened > 1.2; L/T ratio < ate-Flattened > 1.2;T/W ratio >	
Seed Coat Color:				
1 = Yello	w 2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
Seed Coat Luster:	•			•
1 1 = Dull	2 = Shiny			
Seed Size:				
1 6 . 2 g	rams/100 seeds			
Hilum Color:				
5 1 = Buff 6 = Black		3 = Brown se Specify)	4 = Gray	5 = Imperfect Black
Cotyledon Color:				
1 - 1 = Vello	w 2 = Green			

#### A. MORPHOLOGY (Continued)

Seed Protein Peroxidase Activity:

$$1 = Low$$

$$2 = High$$

**Hypocotyl Color:** 

Leaf Shape:

$$2 = Oval$$

Flower Color:

**Pod Color:** 

**Pubescence Color:** 

Plant Habit:

$$3 = Indeterminate$$

**Maturity Group:** 

$$3 = 0$$
$$8 = V$$
$$13 = X$$

$$4 = I$$
$$9 = VI$$
$$14 = XI$$

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

$$2 = Resistant \quad 3 = 7$$

**Bacterial** 

- 0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- 0 Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- 0 Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

0 Brown Spot (Septoria glycines Hemmi)

В.	DI	SEASE REAC	TION	S (Continue	<i>d</i> ) 0	= Not Tested	1 =	Suscep	otible	2 = Resis	2.0	9 Зт	Octont I	<b>3</b> 0
		Frogeye Leaf	f Spot	(Cercospora	sojina I	Iara)								
	0	race 1		Torrow.		ace 2		0	race 3 Other (	Please Spe	L	0	race 4	_
	0	Target Spot	(Coryi	iespora cassi	iicola (Be	erk. & Curt.)	Wei)							
	0	Downey Mild	lew (F	eronospora	trifolioru	m var. manch	urica (N	aum.) S	Syd. ex G	äum)				
	0	Powdery Mil	dew (	Microsphaer	a diffusa	Cke. & Pk.)								
	1	Brown Stem	Rot (1	Phialophora	gregata (	Allington & C	hamberl	ain) W.	Gams.)	j				•
	0	Stem Canker	(Diap	orthe phase	olorum (	Cke. & Ell.) S	acc. var.	caulivo	ra Athov	v & Caldw	ell)			
	Pod and Stem Blight (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. sojae (Lehman) Wehm.)													
	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)													
	0	Rhizoctonia I	Root R	tot ( <i>Rhizocto</i>	nia solai	ıi Kühn)								
Phy	/top	hthora Root R	ot (Ph	ytophthora i	negasper	ma Drechs. f.	sp. glycii	nea (Ku	an & Er	win))				
_	2	race 1	2	race 8	2	race 15	1	race 22						
	2	race 2	2	race 9	1	race 16	2	race 23						
	2	race 3	2	race 10	2	race 17	2	race 24						
_	1	race 4	2	race 11	1	race 18	1	race 25	e e e e e e e e e e e e e e e e e e e				٠	
	1	race 5	1	race 12	1	race 19	2	race 26						
	2	race 6	2	race 13	1	race 20	2	Other (	Please Sp	pecify):				
L	2	race 7	1	race 14	2	race 21		Races	28, 29,	30, 32				
	0	Bud Blight (T	obacc	o Ringspot	Virus)	<b>以</b> 原一制	As A							
	0	Yellow Mosaid	c (Bea	n Yellow M	osaic Vir	rus)								
	0	Cowpea Mosa	ic (Ca	wpea Chlor	otic Viru	ıs)		·						
	0	Pod Mottle (B	ean P	od Mottle V	irus)									

Salt

Drought

Other (Please Specify)

			2003	00130
D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant 3	= Tolerant
0 Mexican Bean Beetle (Epilachna	varivestis Mulsant)		الماريدة مدرية المارة والموارة والمارية	And the second s
				هورس
0 Potato Leaf Hopper (Empoasca fo	ıbae (Harris))			
Other (Please Specify)				
Other (riease specify)		<u></u>		
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
2 Metribuzin				×
0 Bentazone				
2 Sulfonylurea	•			· · · · · · · · · · · · · · · · · · ·
2 Glyphosate				
Z Gryphosate				
1 Glufosinate				•
0 Pendimethalin			*	
V Fendinetham				
Other (Please Specify)	-			
F. TRANSGENIC COMPOSITION		i <del>.</del>	• • • • • • • • • • • • • • • • • • • •	C
Has the development of the Subject Variety If yes, please complete the following inform				S NO
<ol> <li>Please state the vector's name:</li> <li>Please state the vector components:</li> </ol>				
<ul><li>3. Please describe the genetic material such</li><li>4. Please describe the insertion protocol:</li></ul>	ccessfully transferred	into the Subject Vari	ety:	
-				
* A literature citation(s) explaining the f the "Transgenic Composition" portion		ests above may be an	acceptable alternativ	e to completion of
			•	
	en e			
U.S. Patent No. 5,776,760. Issue Date: J Monsanto Company. Patent Application I		r: Barry, Gerard, and	d Kishore, Ganesh.	Assignee:
ABSTRACT: Genes encoding a glyphosate transformed bacteria and plants which deg				

herbicide.

#### G. BIOCHEMICAL MARKERS

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

#### H. COMMENTS

MONSANTO TECHNOLGY LLC PVP APPLICATION - 0049431

#### EXHIBIT D

#### ADDITIONAL DESCRIPTION OF INVENTION

0049431 is a late maturity group III variety with resistance to Roundup <sup>tm</sup> herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including lodging resistance. In tests, it has beaten Stine 3842-4 by 110 % overall, winning at 17 of 29 locations. It is adapted to the late maturity group III growing areas of Iowa, Indiana, Ohio, Kansas, Illinois, Missouri, and Pennsylvania. It has only average appearance.

REPRODUCE LOCALLY. Include form number and edition date on all reproduc	tions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE		
AGRICULTURAL MARKETING SERVICE	Application is required in order to det certificate is to be issued (7 U.S.C. 2	421). The information is held
EXHIBIT E	confidential until the certificate is issu	ied (7 U.S.C. 2426).
STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Monsanto Technology LLC	DBL3702B0X	0049431
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZiP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
634 E. Lincoln Way	(515) 232-7170	(515) 232-6905
Ames, IA 50010		
	7. PVPO NUMBER	
	200	300130
8. Does the applicant own all rights to the variety? Mark an "X" in the	he appropriate block. If no, please exp	lain. The NO
		x
9. Is the applicant (individual or company) a U.S. National or a U.S.	based company? If no, give name of	country. YES NO
		[X]
10. Is the applicant the original owner?	NO If no, please answer <u>one</u> o	f the following:
a. If the original rights to variety were owned by individual(a) in	(oro) the eriginal cumer(s) a 1.5 C. Nation	V-\0
a. If the original rights to variety were owned by individual(s), is	NO If no, give name of country	
b. If the original rights to variety were owned by a company(ies)	), is (are) the original owner(s) a U.S. ba NO If no, give name of countr	
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not license)	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords the	person must be a U.S. national, national of the U.S. for the same genus and spec	of a UPOV member country, or les.
If the rights to the variety are owned by the company which employnationals of a UPOV member country, or owned by nationals of a server and appears.	yed the original breeder(s), the company country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same
genus and species.		•
3. If the applicant is an owner who is not the original owner, both the		•
The original breeder/owner may be the individual or company who die Act for definitions.	rected the final breeding. See Section 4	11(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may no conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, response, including the time for reviewing the instructions, searching existing data sources,	The time required to complete this information colle	ction is estimated to average 6 minutes per
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs on the and marital or familial status. (Not all prohibited bases apply to all programs). Persons with audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TD	disabilities who require alternative means for commu	n, age, disability, political beliefs, sexual orientation, inication of program information (braille, large print,

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14<sup>th</sup> and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

STD-470-E (04-99) (Destroy previous editions).

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